

Weekly Report

1 Done

1.1 Project

- Writing:

<https://www.overleaf.com/read/ynbpgxjsngfy>

Now, I move to Section four (Our Approach).

- Design

I decide to show two views in each stage so that users can focus on the current step and have more work space.

- In the first stage, we need data view on the left and inference view on the right. Users can observe attribute distributions and define events in data view. The inferences extracted based on Bayesian Network will be show in the inference view, where users can explore and edit underlying inferences.
- In the second stage, data view shows attribute values by records or by groups. Inference view illustrates recommendations on how to break those inferences by groups. Thus, users can correspond data with processing when understanding the processes and adjusting schemes.
- In the third stage, the data view remains unchanged. In the right view, users verify the protection by simulating attacks from other models.

- Coding:

I configured environments for backend on both my laptop (windows) and my computer at lab (ubuntu). It took me a long time.

I also improved interaction effects in the first stage.

- Discussion

I asked Yiran to help me polish my writing. Besides, we plan to seek reviews or advices on our system design from a professor on computer security next week.